



3M™ Weather Resistant Film Tape 838

Last Revision Date: December, 2014

Product Description

3M™ Weather Resistant Film Tape 838 is comprised of strong, thin Tedlar® backing with high shear, solvent resistant acrylic adhesive. This tape is ideal for many long-term weather resistant and protection applications.




Product Features

- Tedlar® PVF backing provides strength without thickness.
- The properties of Tedlar® film include excellent resistance to weathering, outstanding mechanical properties and inertness toward a wide variety of chemicals, solvents and staining agents.
- Good aging properties because it contains no plasticizers. It also remains tough and flexible over a broad temperature range.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Property	Values	Additional Information
Backing	Tedlar® PVF	
Adhesive Type	Acrylic	
Color	White	
Backing Thickness (mm)	0.05 mm	View 
Test Method: ASTM D3652		
Total Tape Thickness (mil)	3.4 mil	View 
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.09 mm	View 
Test Method: ASTM D3652		

Backing Thickness	2.1 mil	View 
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Test Method: ASTM D3652

Typical Performance Characteristics

Property	Values	Additional Information
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Tensile Strength	42 N/cm	View 
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Test Method: ASTM D3759

180° Peel Adhesion	5.1 N/cm	View 
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Test Method: ASTM D3330

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	47 oz/in	View 
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Test Method: ASTM D3330

Notes: 12 in/min (300 mm/min)

Tensile Strength	384 oz/in	View 
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Test Method: ASTM D3759

Elongation at Break (%)	170 %	View 
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Test Method: ASTM D3759

Long Term Temperature Resistance	107 °C	
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Minimum Long Term Temperature Resistance	-73 °C	
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Long Term Temperature Resistance	225 °F	
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Minimum Long Term Temperature Resistance	-100 °F	
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Available Sizes

Property	Values	Additional Information
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Standard Roll Length	65.8 m	
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Standard Roll Length

72 yd

Storage and Shelf Life

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material. To obtain best performance, use this product within 18 months from date of manufacture.

Bottom Matter

3M
Industrial Adhesives and Tapes Division
3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550

Trademarks

3M is a trademark of 3M Company.

Handling/Application Information

Application Examples

- Sealing the seams of outdoor building panels, windows and doors as well as similar severe exposure applications.
- Hinge seal on shower doors.
- Sealing critical area from moisture intrusion.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40071912/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=838

Family Group

Link Tags:

838

Products	Backing	Adhesive Type	Color	Backing Thickness (mm)	Total Tape Thickness (mm)	Tensile Strength	Long Term Temperature Resistance	Minimum Long Term Temperature Resistance
838	Tedlar® PVF	Acrylic	White	0.05 mm	0.09 mm	42 N/cm	225 °F	-73 °C

ISO Statement

This product was manufactured under a quality system registered to ISO 9001 standards.

Information

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